

NATIONAL ADVISORY COMMITTEE
FOR AERONAUTICS

1724 F Street, Northwest
Washington 25, D. C.

M.L. 288 (Monthly list of documents released by the NACA during March 1951)

Libraries in most of the important cities throughout the country, as well as libraries of schools, manufacturers, and other organizations dealing with aeronautics, are supplied copies of these publications for references.

TECHNICAL NOTES

- TN 2190 The Use of an Uncalibrated Cone for Determination of Flow Angles and Mach Numbers at Supersonic Speeds.
By: Morton Cooper and Robert A. Webster.
- TN 2222 A Method for the Determination of the Spanwise Load Distribution of a Flexible Swept Wing at Subsonic Speeds.
By: Richard B. Skoog and Harvey H. Brown.
- TN 2279 Three-Dimensional Compressible Laminar Boundary-Layer Flow.
By: Franklin K. Moore.
- TN 2300 Analytical and Experimental Investigation of Effect of Twist on Vibrations of Cantilever Beams.
By: Alexander Mendelson and Selwyn Gendler.
- TN 2301 Linearized Solution and General Plastic Behavior of Thin Plate with Circular Hole in Strain-Hardening Range.
By: M. H. Lee Wu.
- TN 2302 A General Through-Flow Theory of Fluid Flow With Subsonic or Supersonic Velocity in Turbomachines of Arbitrary Hub and Casing Shapes.
By: Chung-Hua Wu.
- TN 2303 Correspondence Flows for Wings in Linearized Potential Fields at Subsonic and Supersonic Speeds.
By: Sidney M. Harmon.
- TN 2304 Effect of Heat and Power Extraction on Turbojet-Engine Performance.
IV - Analytical Determination of Effects of Hot-Gas Bleed.
By: Stanley L. Koutz.
- TN 2306 Meteorological Analysis of Icing Conditions Encountered in Low-Altitude Stratiform Clouds.
By: Dwight B. Kline and Joseph A. Walker.

- TN 2307 A Theoretical Method of Determining the Control Gearing and Time Lag Necessary for a Specified Damping of an Aircraft Equipped with a Constant-Time-Lag Autopilot.
By: Ordway B. Gates, Jr., and Albert A. Schy.
- TN 2308 Vibratory Stresses in Propellers Operating in the Flow Field of a Wing-Nacelle-Fuselage Combination.
By: Vernon L. Rogallo, John C. Roberts, and Merritt R. Oldaker.
- TN 2309 Charts for Estimation of Longitudinal-Stability Derivatives for a Helicopter Rotor in Forward Flight.
By: Kenneth B. Amer and F. B. Gustafson.
- TN 2310 Generalization of Boundary-Layer Momentum-Integral Equations to Three-Dimensional Flows Including Those of Rotating System.
By: Artur Mager.
- TN 2311 Flight Investigation of the Variation of Static-Pressure Error of a Static-Pressure Tube With Distance ahead of a Wing and a Fuselage.
By: William Gracey and Elwood F. Scheithauer.
- TN 2313 The Effects of Mass Distribution on the Low-Speed Dynamic Lateral Stability and Control Characteristics of a Model With a 45° Sweptback Wing.
By: Donald E. Hewes.
- TN 2314 Effect of Quadratic Terms in Differential Equations of Atmospheric Oscillations.
By: C. L. Pekeris.
- TN 2316 Wind-Tunnel Investigation at Low Speed of Lateral Control Characteristics of an Untapered 45° Sweptback Semispan Wing of Aspect Ratio 1.59 Equipped With Various 25-Percent-Chord Plain Ailerons.
By: Harold S. Johnson and John R. Hagerman.
- TN 2317 Applications of Von Kármán's Integral Method in Supersonic Wing Theory.
By: Chieh-Chien Chang.
- TN 2318 Full-Scale-Tunnel Investigation of the Static-Thrust Performance of a Coaxial Helicopter Rotor.
By: Robert D. Harrington.
- TN 2320 Effects of Some Solution Treatments Followed by an Aging Treatment on the Life of Small Cast Gas-Turbine Blades of a Cobalt-Chromium-Base Alloy. I - Effect of Solution-Treating Temperature.
By: C. Yaker and C. A. Hoffman.
- TN 2322 Creep of Lead at Various Temperatures.
By: Peter W. Neurath and J. S. Koehler

- Rept. 966 Flutter of a Uniform Wing With an Arbitrarily Placed Mass According to a Differential-Equation Analysis and a Comparison With Experiment.
By: Harry L. Runyan and Charles E. Watkins.
Formerly issued as TN 1848.
- Rept. 968 Investigation at Low Speeds of the Effect of Aspect Ratio and Sweep on Rolling Stability Derivatives of Untapered Wings.
By: Alex Goodman and Lewis R. Fisher.
Formerly issued as TN 1835.
- Rept. 970 Theoretical Lift and Damping in Roll at Supersonic Speeds of Thin Swept-back Tapered Wings With Streamwise Tips, Subsonic Leading Edges, and Supersonic Trailing Edges.
By: Frank S. Malvestuto, Jr., Kenneth Margolis, and Herbert S. Ribner.
Formerly issued as TN 1860.
- Rept. 982 Icing-Protection Requirements for Reciprocating-Engine Induction Systems.
By: Willard D. Coles, Vern G. Rollin, and Donald R. Mulholland.
Formerly issued as TN 1993.
- Rept. 983 Line-Vortex Theory for Calculation of Supersonic Downwash.
By: Harold Mirels and Rudolph C. Haefeli.
Formerly issued as TN 1925.
- Rept. 988 Comparative Drag Measurements at Transonic Speeds of Rectangular and Sweptback NACA 65-009 Airfoils Mounted on a Freely Falling Body.
By: Charles W. Mathews and Jim Rogers Thompson.
Formerly issued as TN 1969.
- Rept. 989 Critical Stress of Ring-Stiffened Cylinders in Torsion.
By: Manuel Stein, J. Lyell Sanders, Jr., and Harold Crate.
Formerly issued as TN 1981.
- Rept. 994 Analysis of Spanwise Temperature Distribution in Three Types of Air-Cooled Turbine Blade.
By: John N. B. Livingood and W. Byron Brown.
Formerly issued as RM E7B11e and E7G30.
- Rept. 995 Blockage Corrections for Three-Dimensional-Flow Closed-Throat Wind Tunnels, With Consideration of the Effect of Compressibility.
By: John G. Herriot.
Formerly issued as RM A7B28.
- Rept. 998 Further Experiments on the Flow and Heat Transfer in a Heated Turbulent Air Jet.
By: Stanley Corrsin and Mahinder S. Uberoi.
Formerly issued as TN 1865.



3 1262 08726 1755

4.

TECHNICAL MEMORANDUMS

M.L. 288

TM 1272 Critical Velocities of Ultracentrifuges.
By: V. I. Sokolov.

TM 1297 State and Development of Flutter Calculation.
By: A. Teichmann.

TM 1310 Correction Factors for Wind Tunnels of Elliptic Section With Partly Open
and Partly Closed Test Section.
By: F. Riegels.